

What is claimed is:

1. A vehicle for traversing a surface comprising:
a track further comprising:
5 an inner surface, said inner surface having a plurality of driving lugs
attached to the inner surface; and
an outer surface for gripping the surface;
a driver sprocket for said track having a driving portion, the driving lugs
having sidewalls which make an angle with respect to the inner surface of the track
10 such when the driving lug engages the driver sprocket, the sidewall of the driving
lug presents a surface substantially parallel to a radial acting through a driving
portion of the drive sprocket when engaged with the track.
2. The vehicle of claim 1 wherein the driver sprocket engages at least one of
15 said plurality of driving lugs when the driving sprocket is driving the track.
3. The vehicle of claim 1 wherein the driver sprocket engages at least two of
said plurality of driving lugs when the driving sprocket is driving the track.
- 20 4. The vehicle of claim 1 wherein the driving portion of the drive sprocket
includes a sleeve.
5. The vehicle of claim 1 wherein the driving portion of the drive sprocket
includes a sleeve adapted for rotation.
25
6. The vehicle of claim 1 wherein the driving portion of the drive sprocket
includes a first sleeve having a first axis and a second sleeve having a second axis,

the first axis and the second axis being substantially colinear, the first sleeve separated from the second sleeve.

7. The vehicle of claim 6 wherein the first sleeve and the second sleeve are
5 rotatable sleeves.

8. The vehicle of claim 1 wherein the driving lugs are formed into two aligned rows on the inner surface of the track.

10 9. The vehicle of claim 1 wherein the driving lugs have walls which present a surface tangent to the driving portion having a non parallel line which would present a decline surface to the driving portion and tend to force the driving portion into engagement with the drive belt.

15 10. A drive belt for a vehicle, the drive belt adapted to engage a drive sprocket having n number of driving portions, the drive belt comprising:

a track portion further comprising:

an interior surface;

an exterior surface; and

20 a pitch line positioned between the interior surface and the exterior surface; and

driving lugs attached to the interior surface of the drive belt, each of the driving lugs having at least a first sidewall making an angle with respect to the pitch line of the track, the angle being in the range of $[90 - (360/2n)]$ plus or minus 5
25 degrees.

11. The drive belt of claim 10 wherein the angle is in the range of $[90 - (360/2n)]$ plus or minus 3 degrees.

12. The drive belt of claim 10 wherein the angle is in the range of $[90 - (360/2n)]$ plus or minus 2 degrees.
13. The drive belt of claim 10 wherein the angle is in the range of $[90 - (360/2n)]$ plus or minus 1 degree.
14. The drive belt of claim 10 wherein the angle is substantially equal to $[90 - (360/2n)]$.
15. The drive belt of claim 10 wherein the driving lug has a second sidewall with a second angle, the second angle being substantially equal to the angle of the first side wall.
16. The drive belt of claim 10 fitting on a vehicle further comprising a drive sprocket having driving portions, wherein the first angle which the first side wall of the driving lug makes with respect to the pitch line of the track results in a line substantially parallel to a line from the axis of a drive sprocket through the driving portion of the drive sprocket while the drive lug is being driven by the driving portion of the driving sprocket.
17. The drive belt of claim 10 fitting on a vehicle further comprising a drive sprocket having driving portions, wherein the first angle which the first side wall of the driving lug makes with respect to the pitch line of the track results in a non parallel line with respect to a line from the axis of a drive sprocket through the driving portion of the drive sprocket while the drive lug is being driven by the driving portion of the driving sprocket.

18. The drive belt of claim 17 wherein the non parallel line intersects the line from the axis of the drive sprocket at a point below the pitch line of the track.
19. The drive belt of claim 17 wherein the non parallel line presents a surface to
5 the driving portion of the sprocket which declines toward the surface of the track.
20. The drive belt of claim 17 wherein the non parallel line intersects the line from the axis of the drive sprocket at a point above the pitch line of the track.
- 10 21. The drive belt of claim 17 wherein the driving portions of the sprocket are sleeves.
22. The drive belt of claim 21 wherein the driving portions of the sprocket are rotatable.
- 15 23. The drive belt of claim 17 wherein the driving portions of the sprocket are rotatable.
24. The drive belt of claim 17 wherein the driving portions of the sprocket are
20 substantially equally radially spaced about the drive sprocket.